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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/896,074	06/28/2001	Thomas P. Glenn	G0037M	9522
75	90 03/21/2003			
Serge J. Hodgson Gunnison, McKay & Hodgson, L.L.P. Garden West Office Plaza, Suite 220			EXAMINER	
			COLEMAN, WILLIAM D	
1900 Garden Road Monterey, CA 93940			ART UNIT	PAPER NUMBER
			2823	
			DATE MAILED: 03/21/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Astinu Occurrence	09/896,074	GLENN ET AL.
Office Action Summary	Examiner	Art Unit
	W. David Coleman	2823
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	viely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 30 D	ecember 2002 .	
	s action is non-final.	
3) Since this application is in condition for allowards closed in accordance with the practice under E	nce except for formal matters, pro	
Disposition of Claims —		
4) Claim(s) 1-21 is/are pending in the application.		
4a) Of the above claim(s) is/are withdraw	n from consideration.	•
5)⊠ Claim(s) <u>13-21</u> is/are allowed.		
6)⊠ Claim(s) <u>1-12</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	election requirement.	
Application Papers		
9) The specification is objected to by the Examiner		
10) The drawing(s) filed on is/are: a) accept	•	
Applicant may not request that any objection to the		
11) The proposed drawing correction filed on		ved by the Examiner.
If approved, corrected drawings are required in rep	•	
12) The oath or declaration is objected to by the Exa	iminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
. 1. Certified copies of the priority documents	have been received.	
2. Certified copies of the priority documents	have been received in Application	on No
3. Copies of the certified copies of the prioriapplication from the International Bure* See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).	ū
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) ☐ The translation of the foreign language prov 15)☐ Acknowledgment is made of a claim for domestic 	• •	
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 9 .	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)
Potent and Trademark Office		

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 3. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).
- 4. Claims 1, 6, 7, 8, 9, 10, 11 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Sasano, U.S. Patent 6,313,525.
- 5. Pertaining to claim 1, <u>Sasano</u> discloses a semiconductor process as claimed. See **FIG. 1** where <u>Sasano</u> discloses a method comprising:

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forming a central aperture in a substrate 1;

forming electrically conductive trace 6 on a first surface of said substrate, said trace comprising a tab (area 4); and

supporting an image sensor 6 in said central aperture by said tab.

- 6. Pertaining to claim 6, <u>Sasano</u> teaches the method of claim 1 wherein said supporting comprises forming a bump between a bond pad on a first surface of said image sensor and said tab.
- 7. Pertaining to claim 7, <u>Sasano</u> teaches the method of claim 6, wherein said supprong comprises forming a bump between a bond pad on a first surface of said image sensor and said tab.
- 8. Pertaining to claim 8, <u>Sasano</u> teaches the method of claim 7 further comprising coupling a window to said first surface of said image sensor, said window covering and protecting said active area.
- 9. Pertaining to claim 9, <u>Sasano</u> teaches the method of claim 8 further comprising directing radiation at said image sensor, said radiation striking said window, passing through said window, and striking said active area, said active area responding to said radiation.
- 10. Pertaining to claim 10, <u>Sasano</u> teaches the method of claim 7, wherein said tab extends below a periphery of said central aperature.
- 11. Pertaining to claim 11, <u>Sasano</u> teaches the method of claim 1 wherein said forming an electrically conductive trace comprises:

coupling an electrically conductive sheet to said first surface of said substrate; and patterning said sheet to form said trace

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Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

13. Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sasano, U.S.

Patent 6,313,525 as applied to claim 1 and in further view of Peterson et al., U.S. Patent

6,384,473 B1.

14. Sasano discloses a semiconductor process substantially as claimed.

Pertaining to claim 5, Sasano fails to teach the method of claim 1 wherein said supporting

comprises flip chip mounting said image sensor to said tab. Peterson teaches flip chip mounting

an image sensor. In view of <u>Peterson</u>, it would have been obvious to one of ordinary skill in the

art to incorporate the flip chip mounting of an image device in the Sasano semiconductor process

because the light-sensitive side is optically accessible through the window (see Abstract, 3rd

sentence).

Allowable Subject Matter

15. Claims 13-21 allowed.

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Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to W. David Coleman whose telephone number is 703-305-0004. The examiner can normally be reached on 9:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 703-306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

W. David Coleman

Examiner
Art Unit 2823

WDC March 20, 2003